

Amendments to the Claims

1 (Currently Amended). A blood processing system comprising
a ~~processing chamber filter~~ to ~~process~~ remove leukocytes from blood, and
a fluid flow cassette separate from the filter and communicating with the
~~processing chamber filter~~ comprising
a body,
a pump chamber formed entirely in the body,
a flexible diaphragm on the pump chamber responsive to an applied
fluid pressures for flexure toward and away from the pump chamber to pump fluid blood through the
pump chamber,
a valve formed entirely in the body in communication with the pump
chamber,
a flexible diaphragm on the valve response to fluid pressures for
flexure to open and close the valve in concert with operation of the pump chamber,
a flow path formed, at least in part, in the body, to couple the pump
~~chamber valve~~ in fluid flow communication with the ~~processing chamber filter~~, to convey fluid blood
pumped by the pump chamber into the ~~processing chamber filter~~, and
an in line cavity formed in entirely within the body ~~and located in the~~
~~flow path to trap air in blood conveyed in the body to prevent entry of air into the processing chamber.~~

2 (New). A system according to claim 1
further including a blood filtration medium in the cavity.